

## ABSTRACT

A method of treatment of neurodegenerative diseases using neuronal cell transplants is provided. The growth, survival and integration of the transplanted neuronal cells is enhanced by a method of culturing the neuronal cells with drugs having an affinity for immunophilins. Immunophilin binding drugs are optionally administered to the patient during transplantation and/or post-operatively. Neurotrophic factors can also be administered to the neuronal cells *in vitro*, or to the patient during the transplantation procedure and/or post-operatively.

**Figure 6**

Figure 6 displays two sets of histograms comparing the distribution of the number of nodes per cluster ( $N_{cl}$ ) for different values of  $\alpha$ . The top set of histograms shows the distribution for  $\alpha = 0.0$ , while the bottom set shows the distribution for  $\alpha = 0.5$ . Each set contains three histograms corresponding to different values of  $\beta$ :  $\beta = 0.0$  (left),  $\beta = 0.5$  (middle), and  $\beta = 1.0$  (right). The x-axis represents the number of nodes per cluster ( $N_{cl}$ ), ranging from 0 to 10. The y-axis represents the frequency or probability density, ranging from 0 to 1.0. The distributions are generally unimodal and centered around  $N_{cl} \approx 2$  to  $N_{cl} \approx 3$ .